

## AMENDMENTS TO CLAIMS

1. (Currently amended) A surgical microscope system for [operating] positioning a variable focus surgical microscope over a dental chair, said dental chair of the type having a hinge for rotating the patient position said hinge located near the patient's hips and adapted to rotate about said hinge, said dental chair of the type having a range of vertical motion, said system comprising:

a substantially vertical microscope support arm adapted for fitment on said [a]dental chair, and thereby adapted for vertical motion in concert with chair vertical motion;

[a] an articulated horizontally movable microscope positioning arm having a plurality of hinged links, each link having a vertical axis for restricting arm motion solely to a horizontal plane, said microscope position arm connected to said vertical support arm with a clamp, said clamp allowing vertical orientation and vertical motion along the length of said vertical support arm, and

a microscope coupler for connecting said variable focus microscope to said positioning arm at a fixed relative location between said variable focus microscope and said positioning arm; whereby the microscope system is supported for vertical motion and location said substantially vertical support arm and said positioning arm;

whereby motion of a portion of the chair is used to focus the microscope.

2. (Currently amended) The system of claim 1 further including:

a terminal link with a repositionable axis of rotation orthogonal to said substantially vertical support arm proximate said variable focus microscope, whereby said terminal link permits said variable focus microscope may [support may] be inclined at any of several discreet pre-selected angles with respect to said substantially vertical support arm.

3. (Currently amended) A method of using a surgical microscope with a chair having a movable chair bottom and having a rotatable chair back comprising the steps of:

mounting a variable focus microscope on a first end of a substantially horizontal positioning arm; connecting with a movable clamp the horizontal positioning

arm to [the] a second end of said horizontal positioning arm to a substantially  
vertical support arm [pole], said substantially vertical [pole] support arm  
connected to a dental chair bottom;

moving the chair bottom to position the microscope at a location comfortable for  
the microscope user;

rotating the seat back about a hinge pivot point bringing the subject into  
approximate focus of said microscope;

manipulating the variable focus of said variable focus microscope to refine the  
focus to suit the user.